

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-86-105  
Relating to Certification of New Motor Vehicles

MITSUBISHI MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Mitsubishi Motors Corporation emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
KMT2.0T2FB16	2.0	(121.9)	Air Injection - Valve Exhaust Gas Recirculation Oxygen Sensor On-Board Diagnostics (Exempted) Three-Way Catalyst (Combustion Chamber Valve)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0 - 3750	0.39	9.0	1.0

The following are the certification emission values for this engine family:

<u>Loaded Vehicle</u> <u>Weight(lbs.)</u>	<u>Hydrocarbons</u> <u>(Grams per Mile)</u>	<u>Carbon Monoxide</u> <u>(Grams per Mile)</u>	<u>Nitrogen Oxides</u> <u>(Grams per Mile)</u>
0 - 3750	0.28	6.4	0.7

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission

standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

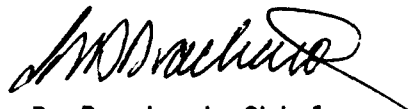
BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with the 2 year/24,000 mile warranty provisions of Health and Safety Code Section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 18<sup>th</sup> day of July, 1988.



K. D. Drachand, Chief  
Mobile Source Division

17.16.02 Supplemental Data Sheet

E.O. # A-86-1051989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1/2Manufacturer: Mitsubishi Motors CorporationEng. Family: KMT2.0T2FB16Evap. Family: CEng. Type : IL4Liters (CID): 2.0 (121.9)

## ABBREVIATIONS

Ignition System

CA -Centrifugal Advance  
 ECU -Electronic Control Unit  
 EI -Electronic Ignition  
 ESAC-Electronic Spark Advance Control  
 VA -Vacuum Advance  
 VR -Vacuum Retard

Exhaust Emissions Control System

AIP -Air Injection-Pump  
 AIV -Air Injection-Valve  
 DBC -Dual Bed Catalyst  
 EGR -Exhaust Gas Recirculation  
 EIC -Electronic Injection Control (Diesel Only)  
 EM -Engine Modification  
 OC -Oxidation Catalyst  
 OS -Oxygen Sensor  
 HOS -Heated Oxygen Sensor  
 SPL -Smoke Puff Limiter or Throttle Delay  
 TOC -Trap Oxidizer, Continual  
 TOP -Trap Oxidizer, Periodical  
 TWC -Three-Way Catalyst  
 WUOC -Warm-Up Oxidation Catalyst  
 WUTWC-Warm-Up Three-Way Catalyst

Special Features

CCV -Combustion Chamber Valve  
 CFI -Central Fuel Injection or Throttle Body Injection  
 DID -Diesel Injection-Direct  
 DIP -Diesel Injection-Prechamber  
 EPFI-Electronic Port Fuel Injection  
 IC -Intercooler or Aftercooler  
 MPFI-Mechanical Port Fuel Injection  
 OBD -On-Board Diagnostics  
 SC -Supercharger  
 SFI -Sequential Fuel Injection  
 TC -Turbocharger

Fuel System

CFI, EPFI, MPFI, SFI,  
 DID, DIP, HOS, OS  
 nV-nVenturi Carburetor  
 VV-Variable Venturi Carburetor

Vehicle Models: Dodge RAM50 2WD & Mitsubishi Truck 2WDEngine : Front X Mid     Rear    Drive : FWD     RWD X 4WD Full Time     4WD Part Time

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## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Passenger Cars \_\_\_\_\_ Light-Duty Trucks X Medium-Duty Vehicles \_\_\_\_\_  
 Gas X Diesel \_\_\_\_\_  
 Mfr.: Mitsubishi Motors Corporation Eng. Family: KMT2.0T2FB16  
 Liter (CID): 2.0 (121.9) Eng. Type: IL4  
 Emission Control Sys.: AIV+EGR+OS+TWC+CCV  
 (Special Features)

Eng. Code	Vehicle Models (If coded see attachment) (Dyno Hp)	T/M. Type	ETW	Ign. System (ECU)  Part No.	Fuel System  Part No.	EGR Valve  Part No.	Catalyst  Part No.
CM ACM	Dodge RAM50 2WD Mitsubishi Truck 2WD	M5	2875	Distributor 100291-1880  ECU E2T54971 (for M5)	Carburetor 32-35DID EF-402 (for M5)	K5T55787	MD096608
CA ACA	Dodge RAM50 2WD Mitsubishi Truck 2WD	A4	3000	E2T54975 (for A4)	32-35DID EF-403 (for A4)  ECU E2T54971 (for M5)  E2T54975 (for A4)		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.